NEW MEXICO OIL CONSERVATION COMMISSION

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| MULTI-POINT BACK PRESSU | | | ر ت | | |
|--|--------------------------|-------------------------|----------------------------------|---------|-----------------------------|
| MHETT-POINT BAGA FILEDOU | ার প্রায় সন্না | DR GAS I | VELLS 🚟 | Re | evised 12-1-5 |
| 1 Undesignated Formation Perm | | | County Tec | | |
| | | | Date of T | est Me | 26, 1965 |
| cial Annual Specia | 4 | | ur-11 | No A | |
| pany_Stell Oil CompanyLease/ | | | | INO • | - • |
| t ? Sec4 Twp 22-8 Rge 34-E | Purchase | er Non | • | | |
| ting 7 5/8" Wt.33.74 I.D. 6.765 Set at 11.88 MAT 5 1/2" 20.00 4.778 II.63 Ding 2 1/2" Wt. 6.59 I.D. 2.441 Set at 12.73 | 0 Perf. | | T | o | |
| MAT 5 1/2W 20.00 4.778 11,03 | 53 CC 14,15 57' Perf. | 1 7 | TT | o | |
| | Min 610 - | CI. 78 | 84 B | ar.Pres | s. 13.2 |
| B Pay: From 12,873'To 13,098' L 12,737' xG | | | | | |
| oducing Thru: Casing Tubing | T Single | ype Wel -Brader | head-G. C | . or G | 0. Dual |
| ce of Completion: Jupe 1, 1965 Packer 12,737 | R | eservoi | r Temp | | |
| OBSERVEI | | | | | |
| | | | Type Taps | 5 71pt | |
| sted Through (ENSIGN (Meter) | m.1.2 | | Casing Da | | |
| Flow Data Flow Data Press. Diff. Temp. | Tubing Da Press. | | Press. | | Duration |
| (Line) (Orifice) | | | psig | °₽. | of Flow Hr. |
| Size Size psig h _w F. | | | Packer_ | | 44 |
| 4 1,250 760 22.0 104 | 5517 | 75 | | | 32 |
| 4 1,250 775 38.0 95 | | 77 80 | | | 3 |
| 4 1.250 775 58.0 93 4 1.250 775 78.0 85 | | 81 | | | 3 |
| | | | | L | |
| FLOW CALC | | ravity | Compre | ss. | Rate of Flow |
| Fact | or F | Factor | Facto | r | Q-MCFPD @ 15.025 psia |
| $(24-Hour)$ $h_w p_f$ psia f_t | | Fg .0041 / | F _{pv} | | 1,264 |
| 9.643 130.4 773.2 .9602 9.643 173.0 788.2 .9602 | - 1 | .0041 | 1,04 | 8 | 1,700 |
| 9.643 213.8 788.2 .9697 | | .0041 | 1.05 | | 2,109 |
| 9,643 247.9 788.2 .9788 | | | | | |
| PRESSURE CA | ALCULATION | s g | ` | | |
| , | | Sneci | fic Gravi | ty Sepa | arator Gas_5 |
| s Liquid Hydrocarbon Ratio 122,640 cf/bbl. avity of Liquid Hydrocarbons 47 deg. API deg. | | Speci | fic Gravi | ty Flow | ving Fluid T |
| 5.866 (1-e ⁻⁵).419 | PE | XI. 74 | 104.2 | | 5,714 - |
| BMP messured with BMP bomb | f = | | · | | |
| $P_t^2 = F_c Q (F_c Q)^2 (F_c Q)^2$ | $(c_Q)^2$ | NZZX PS ² | XXXXXXX | | al. P _W P. Pc |
| $\mathbf{F}_{t} (psia) = \mathbf{F}_{t} \mathbf{F}_{c} \mathbf$ | | PS ² | 91 ² -99 ² | | Pw Pc |
| . 7025.2 | 46 | 406 / | 9,306 | | |
| | 42, | 570 | 13,044 | | |
| 65537.2 | 38 | | | | |
| | 38, | | | | |
| 6537.2 6183.2 | 38 , n595 | | | | <u></u> |
| bsolute Porential: 4,900 MCFPD; | | | | | |
| • 6533.2 • 6185.7 • bsolute Porential: 4,900 MCFPD; | | | | | |

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- P_w Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f Meter pressure, psia.

hw Differential meter pressure, inches water.

Fg Gravity correction factor.

 F_t Flowing temperature correction factor.

 F_{pv} Supercompressability factor.

- n _ Slope of back pressure curve.
- Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .